

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (currently amended) A numerical control apparatus for controlling a machine tool to shape a workpiece, the numerical control apparatus comprising:  
a chopping movement data generating means for making performing the-a contour control,  
to control a contour along which the workpiece is cut, by controlling two or more control axes,  
characterized by comprising chopping movement data generating meansand for generating the  
movement data of the machine tool for making performing the-a chopping operation, for cutting  
and shaping the workpiece, by controlling said two or more control axes at the same time as  
performing the contour control, and  
correction means for correcting a servo delay of each of said control axes to perform the  
chopping operation at the same time while performing the contour control,  
wherein said correction means corrects the servo delay of each of two or more of said  
control axes to perform the chopping operation at the same time while performing the contour  
control, so as to acquire a servo delay amount of each of said control axes by comparing an actual  
position feedback information for each of said control axes performing the chopping operation at  
the same time while performing the contour control with a command value, and

wherein, said correction means also synthesizes said acquired servo delay amount of each of said control axes, and distributes said synthesized servo delay amount to a chopping interpolation vector and a contour control interpolation vector.

2. (currently amended) A numerical control apparatus for making the a contour control of a machine tool to shape a workpiece, by controlling two or more control axes, characterized by the numerical control apparatus comprising:

chopping movement data generating means for generating the movement data of the machine tool for making performing the a chopping operation, for cutting or shaping the workpiece, by controlling said two or more control axes at the same time while making performing the contour control to control a contour along which the workpiece is cut, and correction means for correcting a servo delay of each of said control axes to perform the chopping operation at the same time while performing the contour control,

wherein said correction means corrects the servo delay of each of two or more of said control axes to perform the chopping operation at the same time while performing the contour control, so as to acquire a servo delay amount of each of said control axes by comparing an actual position feedback information for each of said control axes performing the chopping operation at the same time while performing the contour control with a command value, and

wherein, said correction means also synthesizes said acquired servo delay amount of each of said control axes, and distributes said synthesized servo delay amount to a chopping interpolation vector and a contour control interpolation vector.

3. (currently amended) The numerical control apparatus according to claim 2,  
~~characterized in thatwherein~~ said chopping movement data generating means generates the  
movement data for ~~making performing~~ the chopping operation for said control axes at the same  
time while ~~making performing~~ the contour control, ~~in such a manner so~~ as to convolute the  
movement data for ~~making performing~~ the chopping operation ~~and on~~ the movement data for  
~~making performing~~ the contour control, and said chopping movement data generating means  
~~distributes~~distributes said convoluted data to each of said control axes.

Claims 4 and 5 (canceled)

6. (currently amended) The numerical control apparatus according to claim 1 or 2,  
~~characterized in thatwherein~~ a chopping operation initiation command and a chopping operation  
stop command are issued from any one of a processing program and a ladder portion.

7. (currently amended) The numerical control apparatus according to claim 1 or 2,  
~~characterized in thatwherein~~ various data regarding the chopping operation ~~command~~ are set as  
the parameters in a memory, and when ~~the a~~ chopping operation initiation command is issued, the  
chopping control is performed using various data regarding the chopping operation command set  
as said parameters.